



**Fingerprint Identity
User Manual
for the
Griaule Biometric Framework**

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Fingerprint Identity

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Getting Started

Fingerprint Identity is a software solution that is designed to easily integrate biometrics into any type of club or gym membership, employee time management, medical patient identification programs, or any other type of membership type identification application that can benefit from the added convenience and security of biometric identification without having to recode or redesign the original program.

Quick Start Guide

1. [Sign up](#) for a 30-day free trial for the Griaule Biometric Framework.
2. Log into the [control panel](#), create and configure an account, and add the Fingerprint Identity application to your Biometric Framework account.
3. Download the Fingerprint Identity installer, run the installation program and follow the on-screen setup instructions.
4. Install one of the supported fingerprint scanners.
5. Setup Fingerprint Identity to work with your application.
6. Register users and start using Fingerprint Identity with your software.

Features

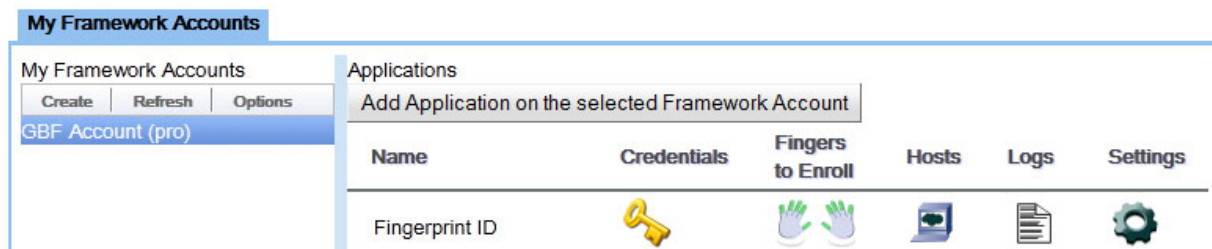
- The main goal of Fingerprint Identity is to replace magnetic or RFID cards, key fobs, or any other identification device with biometric identification without having to modify the existing membership software code.
- Setting up Fingerprint Identity is easy and it works with almost any type of program that uses Custom ID fields to identify users within a membership type database.
- Administrators can easily add or delete users, change custom ID's, or enroll new fingers for the users.
- All the information is AES encrypted and stored on our cloud servers. This allows companies with multiple locations to use the same database at each location.
- Fingerprint Identity runs as a background program and is shown as an Icon in the Windows System Tray. When the user places their finger on a fingerprint scanner; Fingerprint Identity will identify the user and then pass the Custom ID information into the membership program. The membership program will then recognize the Custom ID and work normally as it did before.

Fingerprint Identity Requirements

Fingerprint Identity is a free program that works in conjunction with the Griaule Biometric Framework. You must have a Griaule Biometric Framework account setup before you install Fingerprint Identity on the computer. The Fingerprint Identity installer will detect and automatically install the Biometric Framework if it is not already installed on the computer.

Control Panel Settings

Before you install and setup Fingerprint Identity you must first setup the Griaule Biometric Framework to work with Fingerprint Identity. Begin by logging into your Griaule Biometric Framework Control Panel. If you do not have a Griaule Biometric Framework account please read the Griaule Biometric Framework Developers Manual to help walk you through those steps.



Once in the Control Panel you will need to select a framework account and then click on the “Add Application on the selected Framework Account” button. The application list window will now open and you will click on the Griaule Apps tab. Under the Griaule Apps tab you will see the Fingerprint Identity application; click on the application name and then click on the “Add” button to add the Fingerprint Identity application to your Framework Account. You can now use the Fingerprint Identity software with the Griaule Biometric Framework account.

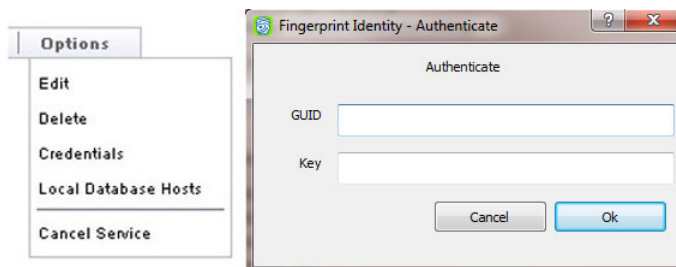
Install and Authenticate Fingerprint Identity

After you have setup the Griaule Biometric Framework to communicate with the Fingerprint Identity you will need to download the Fingerprint Identity software from the Griaule webpage.

<https://www.griaulebiometrics.com/en-us/biometric-framework/downloads>

Click on the link above to download an executable file called “Fingerprint_Identity_Installer.exe”. Once the file has been downloaded; double click on the file and it will run an install program.

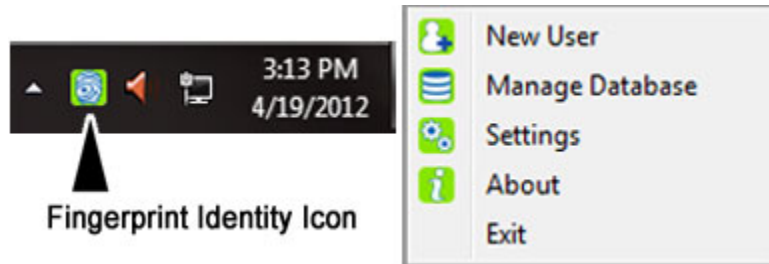
Follow the on-screen setup instructions to complete the installation. After the install process has finished you do not need to restart your computer.



The first time you start the Fingerprint Identity program you will be asked to Authenticate the Fingerprint Identity software with your Griaule Biometric Framework Account GUID and Key. You will need to login to your Griaule Biometric Framework Control Panel, and select the account that has the Fingerprint Identity application setup in it. Next click on the “Options” button above the account name, and then click on “Credentials” in the drop down menu. The account credentials window will open and you can copy and paste the Account GUID and Key into the Fingerprint Identity authenticate window. Fingerprint Identity is now setup and ready to be used with your membership type program.

Using Fingerprint Identity

When you start Fingerprint Identity a small Icon will be loaded into the Windows System Tray as shown in the picture below. When you right mouse click on the icon the Fingerprint Identity Menu will be shown allowing you to add new users, manage the database, and adjust the settings. Each of these functions are explained in this manual so you have good understanding of how to setup and use Fingerprint Identity with your membership type application.

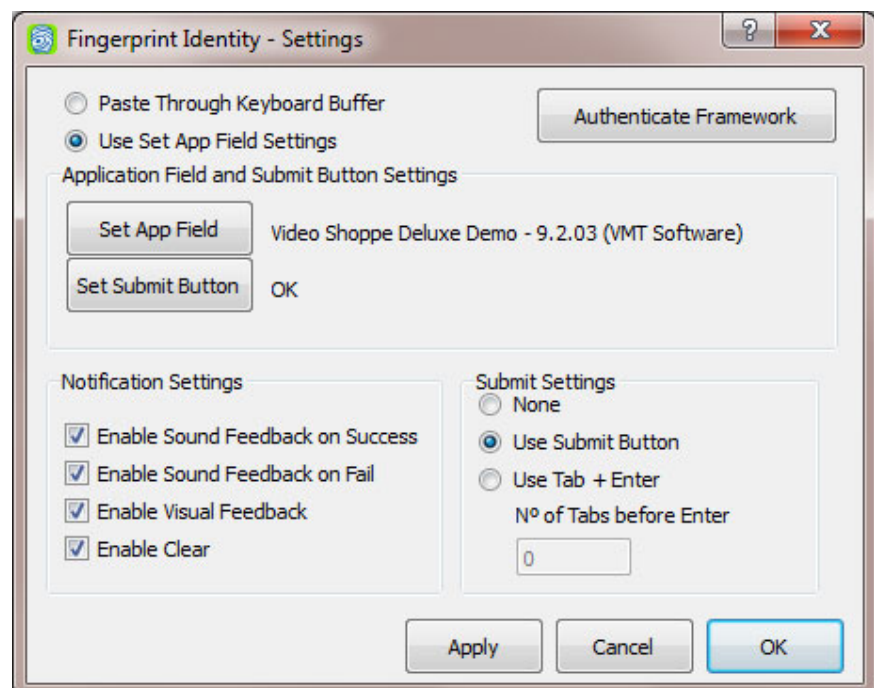


The first time you start Fingerprint Identity the New User and Manage Database icons will be grayed out and disabled because you must first setup Fingerprint Identity to work with the program you want to add Biometrics support too. After you have completed setting up your program with Fingerprint Identity the New User and Manage Database will be available to use.

Settings

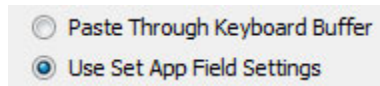


The settings window is the first step in setting up Fingerprint ID to work with your program. In this section we will explain how to setup Fingerprint ID to paste a custom ID into the correct field within your application and then click on the OK / Submit button. A custom ID can be any type of number or letter or character that your membership type program



uses to identify a user. An example of a custom ID could be the user's phone number, drivers license number, or any type of randomly generated ID like a bar-code or RFID card. When you have completed making changes to the settings window please click the "Apply" button to confirm the changes, "Cancel" button to cancel any changes, and "OK" to exit the settings window.

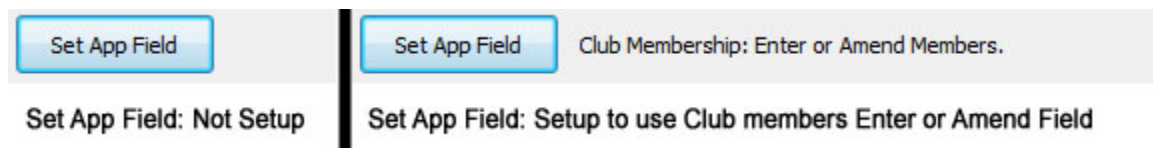
Keyboard Buffer or App Field Settings



The Paste Through Keyboard Buffer or Use Set App Field settings will define how Fingerprint Identity pastes the custom ID into your membership type application. You can use either option, but the Set App Field Settings allows for a more automatic process when identifying and entering the custom ID into your membership type application.

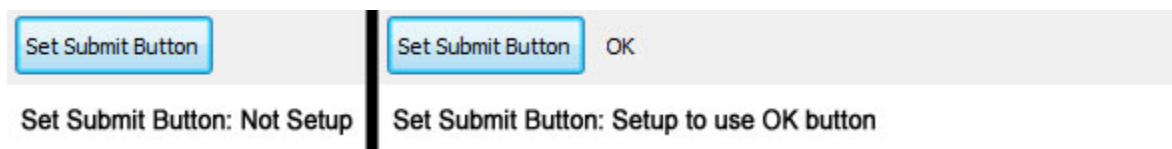
- Paste Through Keyboard Buffer – Use this setting if you are having problems pasting the custom ID with the Set App Field setting. When using this setting the Set App Field button information is not used, and you must have the application field highlighted at all times in order for the information to be pasted correctly. If the application field is not highlighted or the application window is not active Fingerprint Identity will not paste the information correctly.
- Use Set App Field Setting – This is the default setting for Fingerprint Identity and allows the administrator to setup an application and the field within the application that you want to post the custom ID into. Fingerprint Identity can then identify the field and make sure the information is correctly pasted into the right area of your membership type application.

Set App Field Button



The “Set App Field” button is used to define where you want Fingerprint Identity to paste the user’s custom ID into your application. A Field is the text box where you would enter the ID number of the user into the membership type application. When you click on the “Set App Field” button; Fingerprint ID displays a message box: Click OK then click on the desired field. Once you click the OK button in that message box you are going to use the mouse to click on the field in your membership type application where you want Fingerprint Identity to paste the custom ID into your application. Once you click on the mouse Fingerprint Identity will record the field location in your membership type application and display some information about the program next to the “Set App Field” button. If you clicked the wrong field or something went wrong you can always click on the “Set App Field” button again to redefine the field you want to use with Fingerprint Identity.

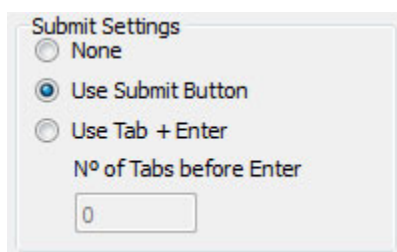
Set Submit Button



The “Set Submit Button” is used to define the button that would be clicked on to enter the custom ID into the membership type application. This way when the user presses their finger on the fingerprint scanner the custom ID is entered into the membership type application and the enter button is pressed automatically so the membership type application will start the process to identify the user. Fingerprint Identity completes the automatic process for entering the user’s information into your membership type application.

When you click on the “Set Submit Button” Fingerprint ID displays a message box: Click OK then click on the desired button. Once you click the OK button in that message box you are going to use the mouse to click on the Enter / Submit button in your membership type application. Once you click on the mouse Fingerprint Identity will record the button location in your membership type application and display some information about the button name next to the “Set Submit Button”. If you clicked the wrong button or something went wrong you can always click on the “Set Submit Button” again to redefine the button you want to use with Fingerprint Identity.

Use Submit Button or Tab + Enter



The submit button is the best way to enter the custom ID information into your membership type application, but just in case that method does not work in your application we have a back-up method that will work with virtually any program. The Tab key can be used to navigate through the applications fields and buttons that are displayed in the membership type application window. You can press the Tab key and you will notice that the highlighted field or button will move to the next button or field.

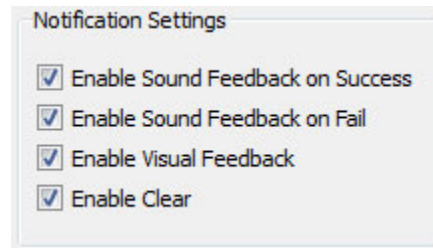
In order to setup the Tab + Enter method you will need to have your membership type application open. Follow the steps below to setup the Tab + Enter method.

1. Begin by using your mouse to highlight the field where you enter the user’s custom ID into the application.

2. Next press the Tab key until the Enter button is highlighted in the application, be sure to keep count of how many times you pressed the Tab key.
3. Now press the Enter key. The application should now enter the user's custom ID and start the process to identify the user.

If everything worked correctly in the steps above then select the "Use Tab + Enter" option and enter the number of tabs you pressed to highlight the Enter / Submit button in the "Number of Tabs before Enter" box. The number of Tabs before Enter can be set from 0 -99.

Notification Settings



The other settings in the Settings window define what type of sounds or visual feedback is given while Fingerprint ID is running and identifying users.

- Enable Sound Feedback on Success – This option will play a sound each time Fingerprint Identity recognizes a user. This can be very helpful for the person attending the entrance as they will hear when a person is recognized by Fingerprint Identity and allowed to enter.
- Enable Sound Feedback on Fail – This option will play a different sound than the Feedback on Success each time Fingerprint Identity does not recognize a user. This can be very helpful for the person attending the entrance as they will hear when a person is not recognized by Fingerprint Identity and can address the situation as needed.
- Enable Visual Feedback – This option will show a colored Pop-Up window with the description of the error or success from Fingerprint Identity in the lower right side of the monitor. This can be very helpful as it will show and describe what actions Fingerprint Identity is performing on your computer.
- Enable Clear – This option will clear the custom ID field before pasting the user's custom ID into the field in your membership type application. You only need to use this option if the custom ID field is not cleared after a user has been identified by your membership type application.

Authenticate Framework

The Authenticate Framework button will bring up the Authenticate Fingerprint Identity window and allow you to change the Account GUID and Key. The only time you would need to use this button is if you are making changes in your Griaule Biometric Framework accounts, or if for some reason you need to re-copy that information into Fingerprint Identity.

Add New User



Once you have setup Fingerprint Identity to work with your membership type application the next step will be adding the users from your application into the Fingerprint Identity database. Adding a new user requires filling in the name and custom ID fields, and then enrolling the user's fingerprints.

Fingerprint Identity - New or Update User Information

Name:

Custom Id:

Cancel Ok

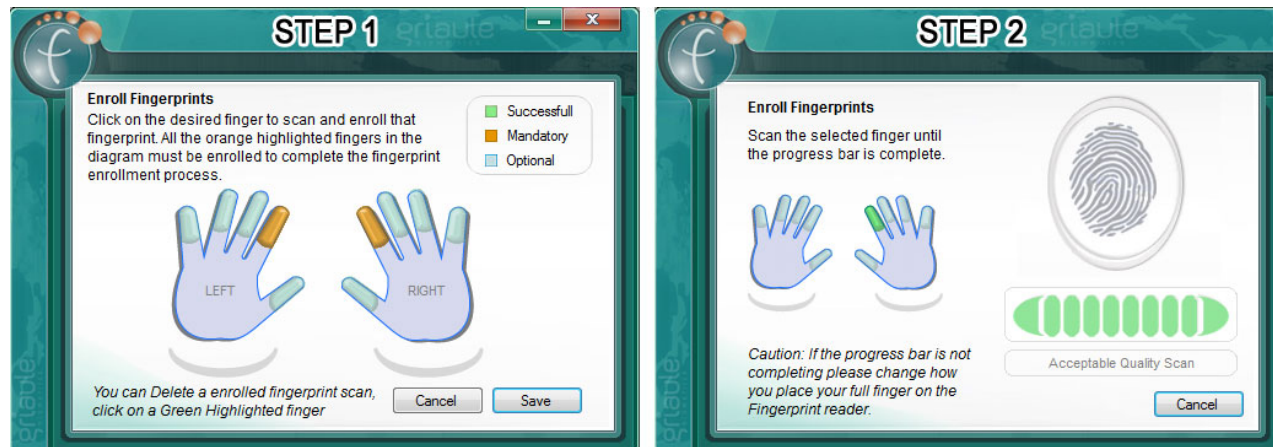
When you click on the “New User” button the New User window will open. Enter the name and the custom ID for the user. The user's custom ID comes from your membership type application and this is the information that Fingerprint ID pastes into your application so that your application can identify the user. Click on the “OK” button to confirm the user's information and to start the Enroll Fingerprint process.

Enroll Fingerprint Process

Once you click on the “OK” button from the New User window another window will open starting the Enroll Fingerprint process. Use this window to enroll the user's fingerprint with Fingerprint Identity. Once you have enrolled the users fingerprints you have completed all the necessary steps to add a New User to the Fingerprint Identity database.



Follow the steps below to enroll the user's fingerprints into the Fingerprint Identity database.

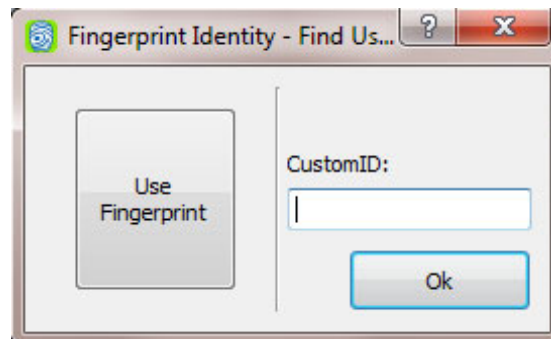


1. In the Enroll Fingerprints window click on one of the orange highlighted fingers in the diagram to enroll that fingerprint. The orange highlighted fingers in the diagram are the mandatory fingers you must enroll with Fingerprint Identity in order to complete the enrollment process.
2. Next press the selected finger onto a fingerprint scanner. You will need to press your fingerprint onto the scanner multiple times until the progress bar is complete.
3. Once the progress bar is completed the fingerprint is saved in the Fingerprint Identity database, and the window returns to the first screen where you can select the other fingers to enroll with Fingerprint Identity.
4. If there is another mandatory finger to enroll you can now repeat steps 1 and 2 until all the mandatory fingers have been enrolled.
5. Once all the fingers have been enrolled click on the Save button to complete the Enroll Fingerprints process. The New User has now been added to the Fingerprint Identity database.
6. If the user has a hard time having his fingerprint being recognized by Fingerprint Identity then you should re-enroll that fingerprint. To re-scan a fingerprint click on one of the green highlighted fingers to delete that scanned fingerprint from the database. Then follow steps 1 and 2 to re-enroll that fingerprint.

Manage Database



The Manage Database options allow the system administrator to update the information about the users. You can change the custom ID, update the fingerprints, or delete the user from Fingerprint Identity. In order to change a users information in the database you will need to have the users custom ID, or if the user is present they can use their fingerprint to identify themselves in the Fingerprint Identity database.



Identify a User

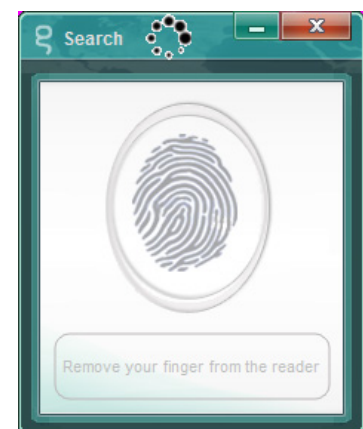
When you click on Manage Database icon the first window you will see is asking you to identify the user. You can use the custom ID or fingerprint to identify the user. If the user is not present you will need to use the custom ID that can be found in your membership type application.

Custom ID

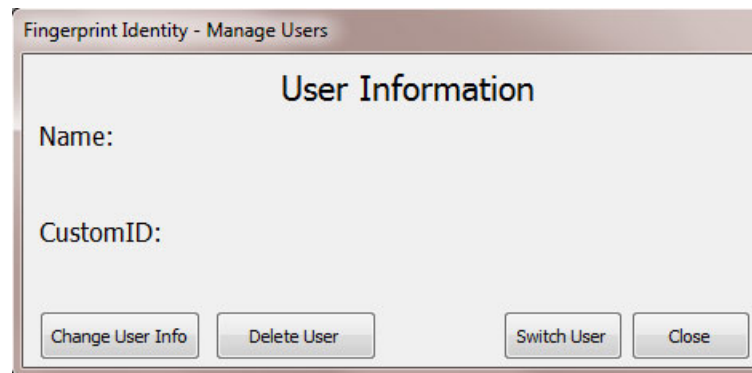
To identify a user by their custom ID enter the custom ID into the custom ID text box and click on the "OK" button. If the custom ID is found the Manage Users information window will open showing the user's information. This is explained in more detail in the Manage Users Information section.

Use Fingerprint

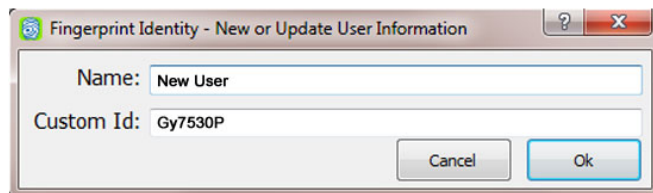
To identify a user by their fingerprint click on the "Use Fingerprint" button. A search window will open asking the user to place their finger on the fingerprint scanner. Once the user places their finger on the scanner Fingerprint Identity will identify the user and if the user is found the Manage User information window will open showing the user's information. This is explained in more detail in the Manage Users Information section.



Manage Users Information



The Manage User Information window appears after the user has been identified with either their fingerprint or custom ID. This window shows the User's Name and Custom ID associated with Fingerprint Identity. If you want to view another users information click on the "Switch User" button and the Identify window will open so that you can enter another users custom ID or fingerprint. The Manage User Information window has two main functions; change the user's information and to delete the user from the Fingerprint Identity database.



- **Change User Information** – If you want to change the custom ID, fingerprints, or the user's name you will need to click on the "Change User Info" button. This will open the New User window with the user's information in edit mode, and will allow you to edit this information. When you click on the "OK" button the Enroll Fingerprint window will open where you have the option of keeping the existing, or changing the Fingerprints used with Fingerprint Identity. Once you complete the Fingerprint Enrollment process click on the "Save" button and the changes to the User's information is complete.
- **Delete User** – If you want to delete the user from Fingerprint Identity click on the "Delete User" button. This will open a confirmation window to be sure you want to delete the user and once you click on the OK button the user's information is deleted from the Fingerprint Identity database.

Background Monitor



Fingerprint Identity runs a background monitor that identifies the application associated with Fingerprint Identity, the field in the application, and the submit button or Tab + Enter settings. The background monitor is constantly running so that when a user places their finger on a fingerprint scanner; Fingerprint Identity can recognize the person and submit the custom ID to your membership type application.

Fingerprint Identity will stop the background monitor when you add a new user, or manage the database. During these times it is not possible for Fingerprint Identity to function normally to identify users. Once you are done adding a new user, or managing the database Fingerprint Identity will automatically start the background monitor and function normally as it did before.

Notifications



Fingerprint Identity uses both visual and audio feedback for every important action like authenticating, identifying a user, and starting or stopping the background monitor. They are designed to help the person attending the entrance easily understand what is going on with the Fingerprint Identity software. These settings can be enabled or disabled according to the administrator's preferences.

- When visual feedback is enabled a visual popup will appear in the lower right side of the monitor when an important task is completed. Fingerprint Identity uses a green pop-up on success, a red pop-up on failure, and a blue pop-up for system messages. Each visual pop-up will include a short message explaining what function has occurred, and then the pop-up fades away automatically.
- When Audio feedback is enabled a success sound or a failure sound is played depending on the type of notification if the user is or is not identified by Fingerprint Identity.